



ATLAS
TOWER GROUP

May 2025

CV47-02 Napton on the Hill

Atlas Tower Group Limited

Document Classification: Public

Introduction

About Atlas Tower Group

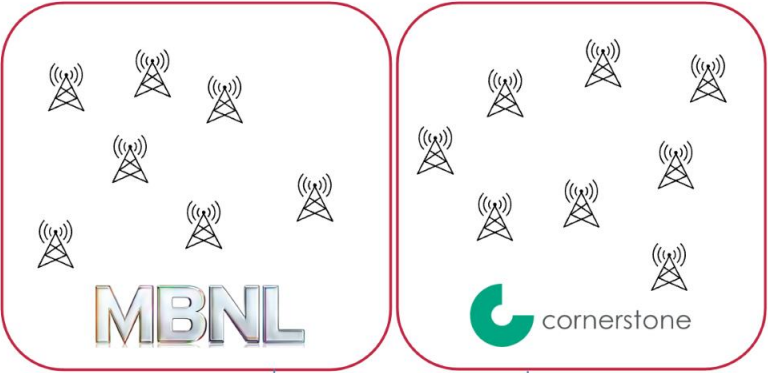
- Atlas Tower Group Limited (Atlas) was established in June 2018, to provide telecommunications infrastructure to the Mobile Network Operators on a national basis
- Over the past few months we have been investigating mobile coverage in Warwickshire and have identified a number of locations where we believe mobile coverage is particularly poor
- We are now meeting with the community leaders in groups like this one to discuss the options for improving the coverage issues
- No financial contribution required for the development of the site. Atlas have contracts in place with all of the mobile operators who pay an annual rental for having their equipment on our site
- This proposal is entirely voluntary, Atlas only want to work in locations where the local community are engaged and supportive of what we are trying to do. So far, the response has been extremely positive

One of our sites in Wolverhampton



UK Infrastructure

Only two physical networks although there are some unilateral deployments



Network Operators



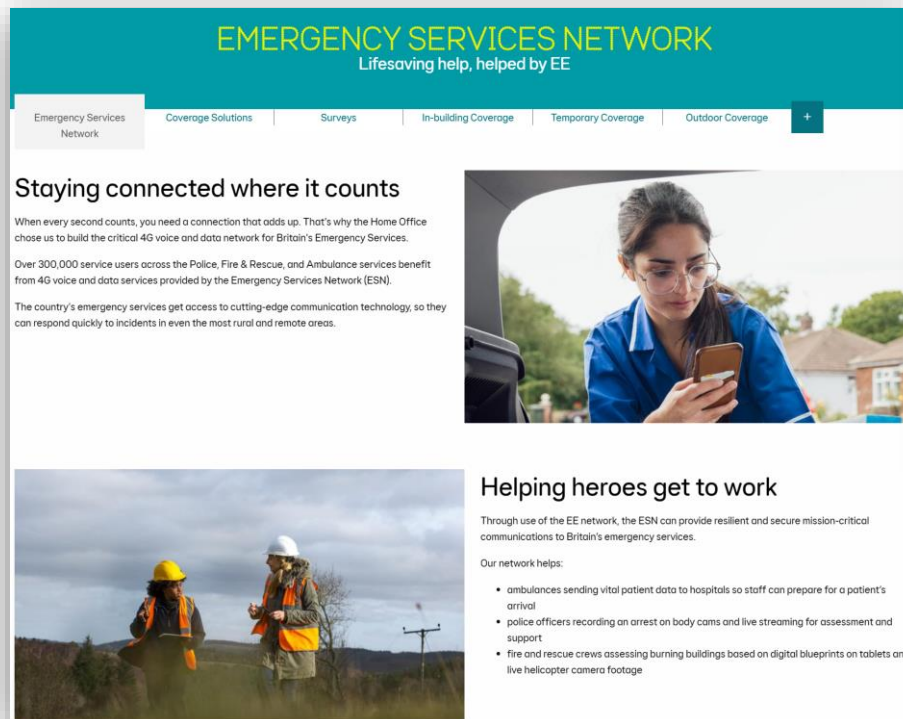
Wholesale Reseller (MVNO) Mobile Virtual Network Operators do not own any sites



Why do I need mobile phone coverage?

Emergency Services Network (ESN EE)

<https://www.gov.uk/government/publications/the-emergency-services-mobile-communications-programme/emergency-services-network>



EMERGENCY SERVICES NETWORK
Lifesaving help, helped by EE

Emergency Services Network | Coverage Solutions | Surveys | In-building Coverage | Temporary Coverage | Outdoor Coverage | +

Staying connected where it counts

When every second counts, you need a connection that adds up. That's why the Home Office chose us to build the critical 4G voice and data network for Britain's Emergency Services.

Over 300,000 service users across the Police, Fire & Rescue, and Ambulance services benefit from 4G voice and data services provided by the Emergency Services Network (ESN).

The country's emergency services get access to cutting-edge communication technology, so they can respond quickly to incidents in even the most rural and remote areas.



Helping heroes get to work

Through use of the EE network, the ESN can provide resilient and secure mission-critical communications to Britain's emergency services.

Our network helps:

- ambulances sending vital patient data to hospitals so staff can prepare for a patient's arrival
- police officers recording an arrest on body cams and live streaming for assessment and support
- fire and rescue crews assessing burning buildings based on digital blueprints on tablets and live helicopter camera footage



Smart Metering (VMO2 & Vodafone)

<https://www.smartdcc.co.uk/our-smart-network/does-a-smart-meter-need-wi-fi/>



Smart meter display showing: Budget, 0:00, Waiting for current data, Now, 10, OK, and navigation arrows.

North/South divide*

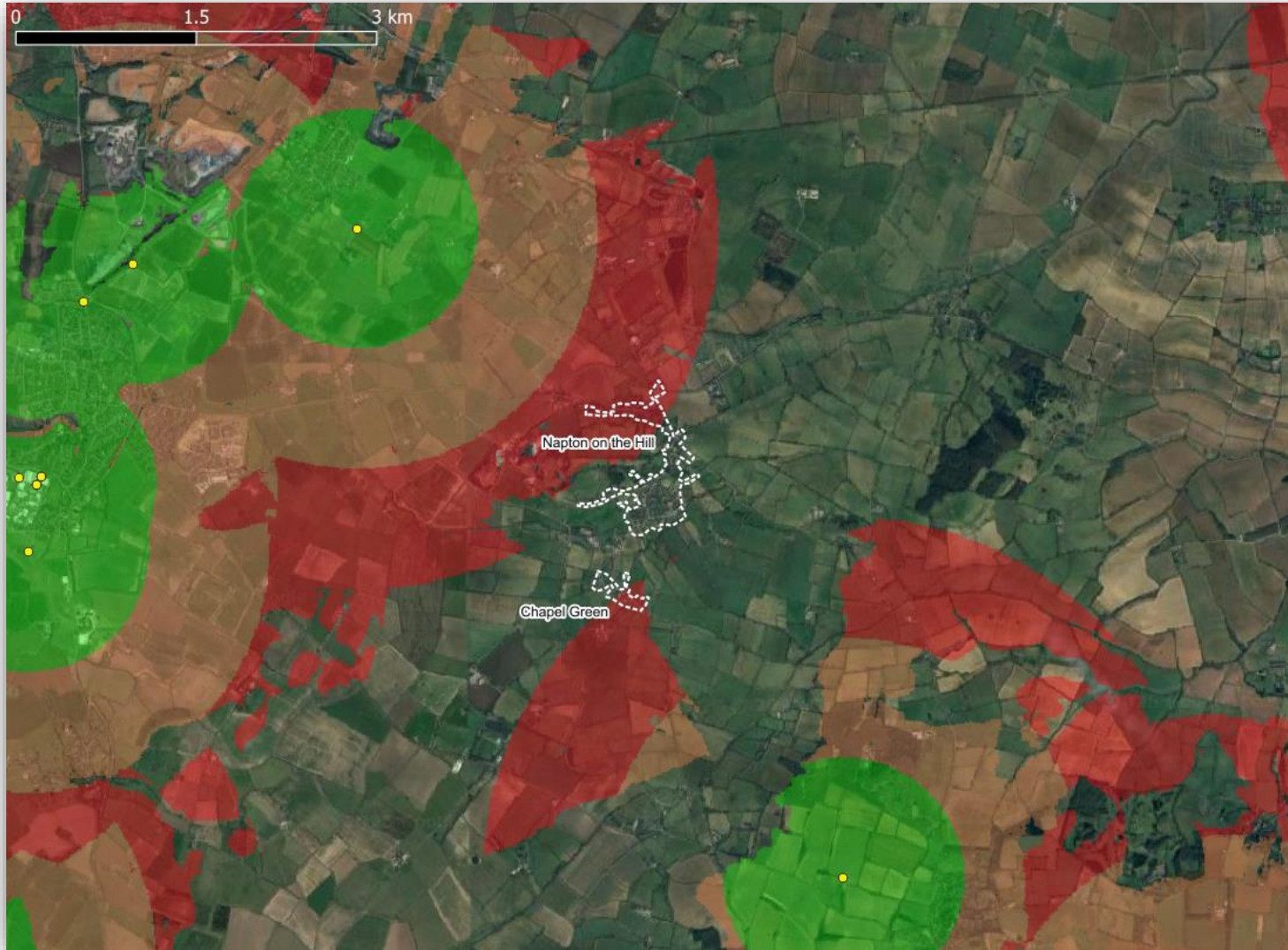
Smart meters in northern England and Scotland rely on **long-range radio signals** to operate. This can cause issues.

Smart meters in the rest of England and Wales use **mobile technology**.

Map showing the North/South divide with an orange dashed line separating the North (radio signals) from the South (mobile technology). Locations marked include Liverpool and Hull.

<https://www.renewableenergyhub.co.uk/blog/why-smart-meters-are-important-for-the-net-zero-target>

CV47-02 Napton on the Hill: Existing Coverage



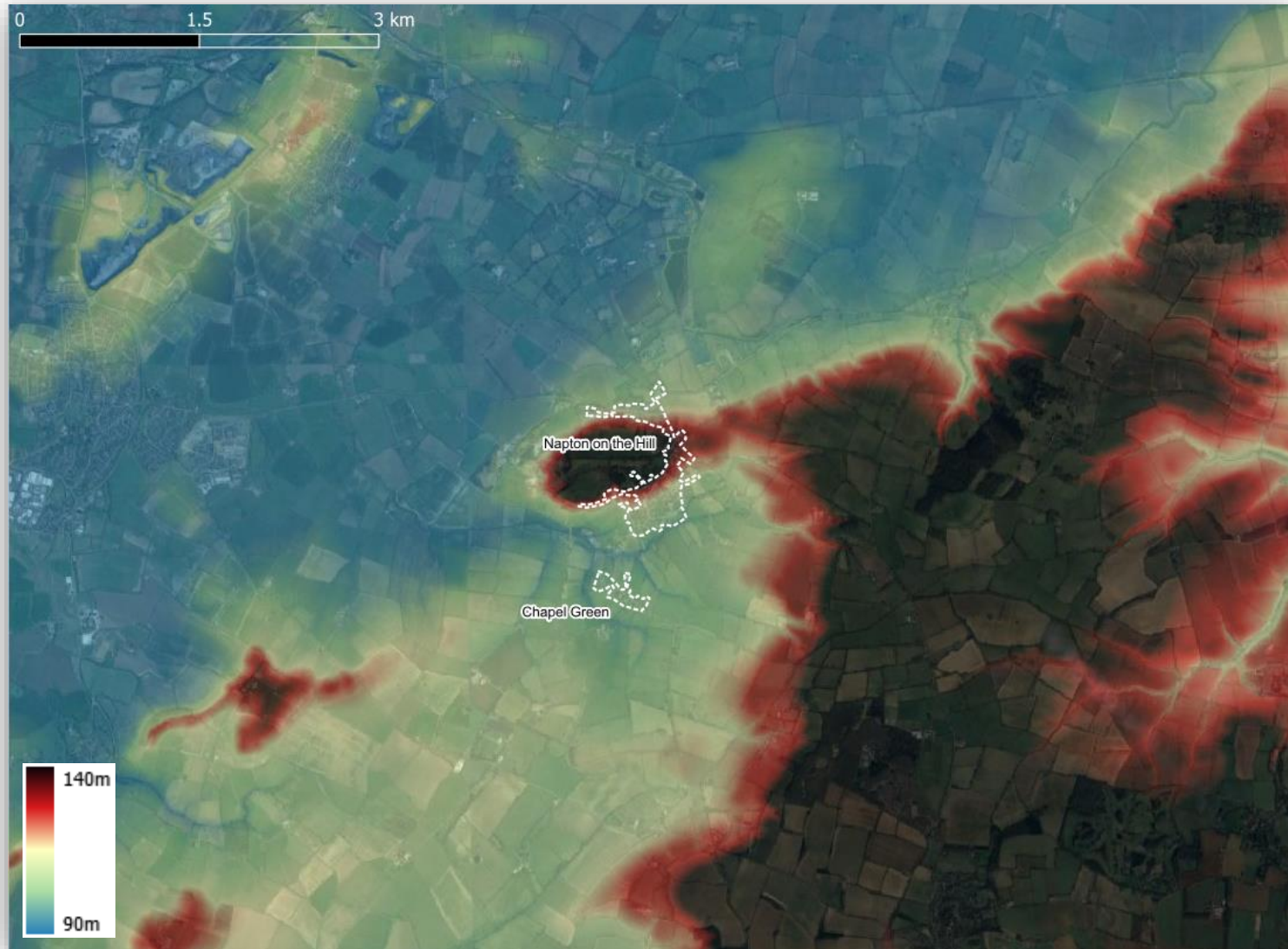
Existing predicted coverage from nearby sites (sites are indicated by the yellow dots within the centre of the green 1km circles, the outer edge of the red rings represent a radius of 3km).

This shows that coverage to Napton on the Hill is provided by sites that are over 2km away.

Due to a mixture of distance and line of sight propagation considerations, existing sites are unable to provide full 4G and 5G services to the whole village. Some outdoor coverage is likely.

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CV47-02 Napton on the Hill: Terrain



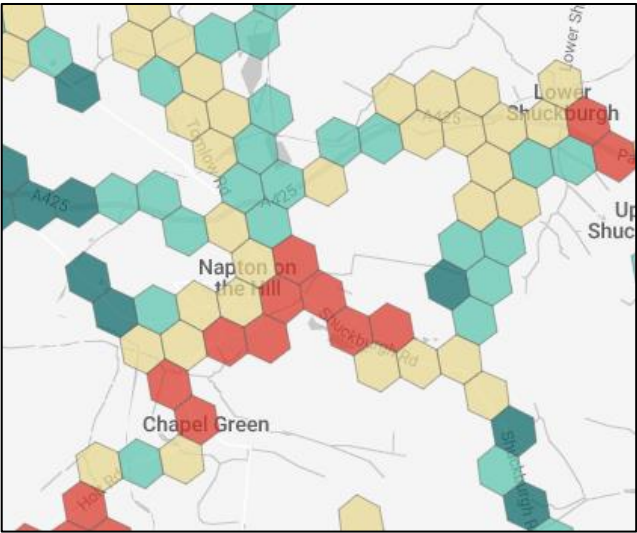
Napton on the Hill rises to 140m above sea level. The village itself has a mixture of ground levels, which makes the terrain a significant consideration when selecting potential locations.

The Oxford Canal is to the west of the village, running north to south.

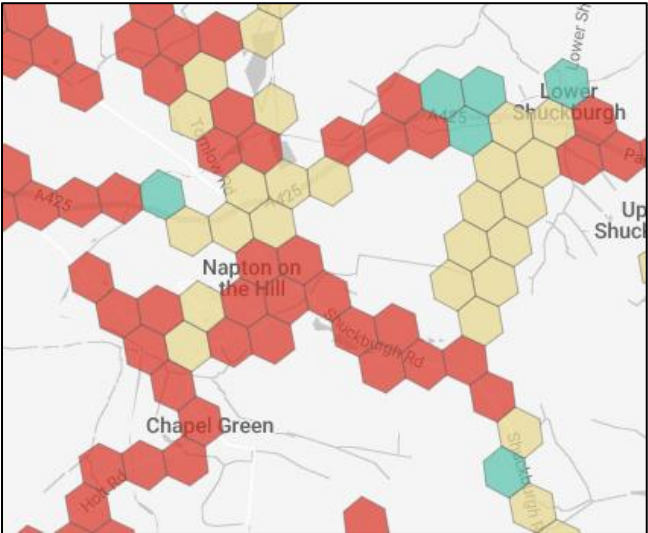
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CV47-02 Napton on the Hill : Streetwave drive data

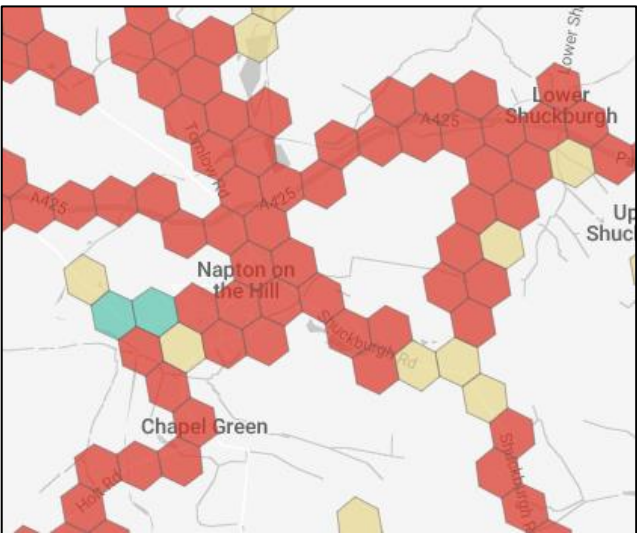
EE



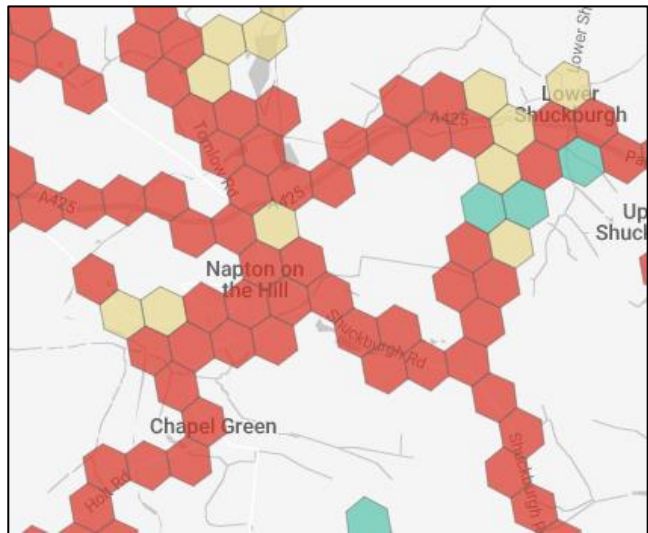
Three



O2



Vodafone



Warwickshire County Council worked with Streetwave to collect drive test data across the village. The images to the left show the results of their independent survey, which ultimately conclude that Napton on the Hill receives mostly poor coverage. A new site that is closer to the village would improve this considerably.

Streetwave's data can also be found on their website: <https://app.streetwave.co/coverage-checker/60/map>.

Excellent						
	Data Calls	Emailing	Internet Browsing	HD Videos	Conference Calls	Gaming
Good						
	Data Calls	Emailing	Internet Browsing	HD Videos		
Essential						
	Data Calls	Emailing	Internet Browsing			
Poor	You may struggle to connect in these locations					

CV47-02 Napton on the Hill: Considerations when choosing a potential location



Additional considerations when choosing a site location:

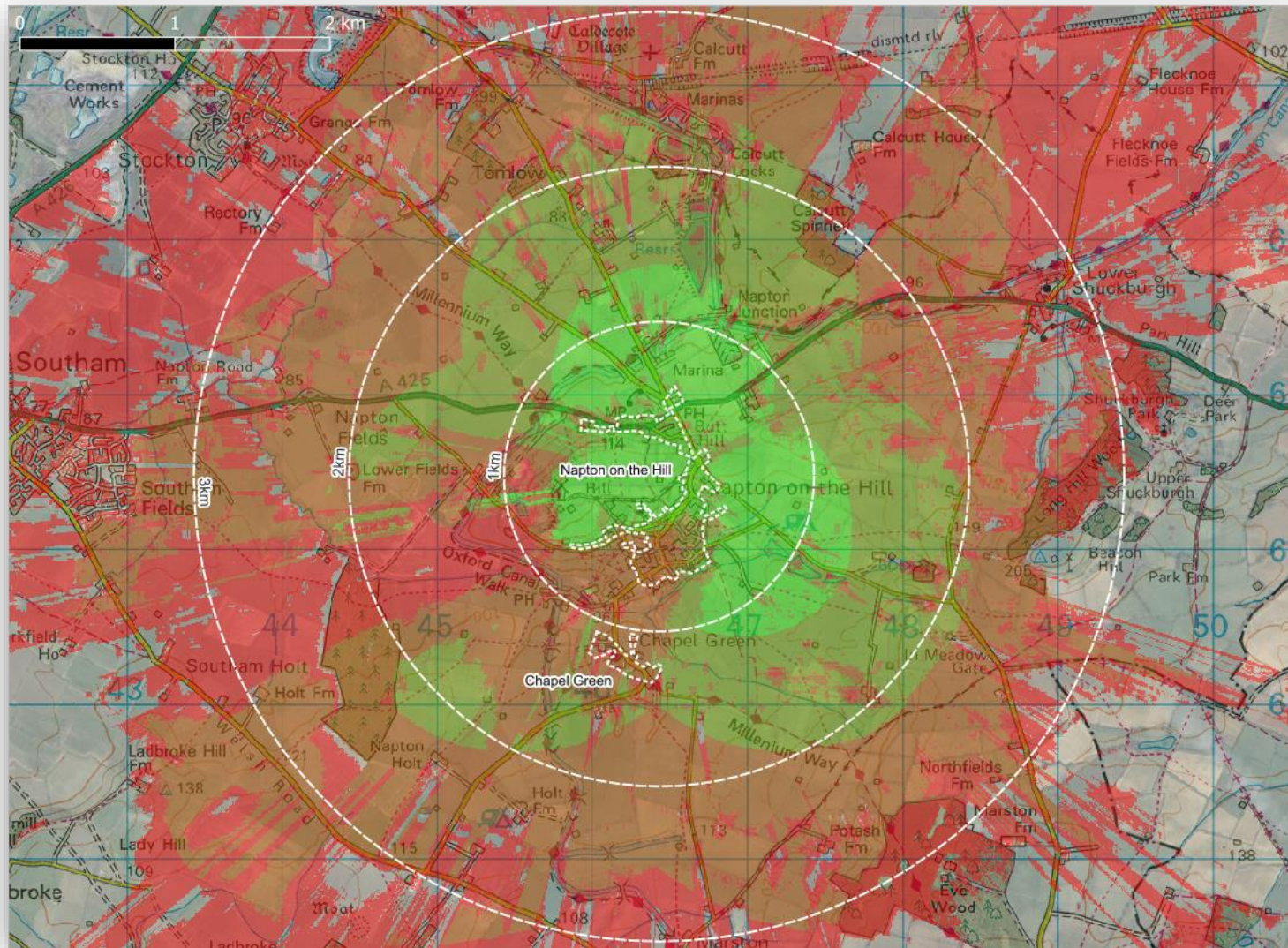
- Power
- Line of Sight
- Access
- Land designations

In the image to the left, the power lines are shown as purple lines. Transformers are the red dots.

Grade II listed buildings are present throughout the village. A small piece of SSSI can also be seen to the west.

The next three slides will show Atlas' predicted coverage from three separate locations.

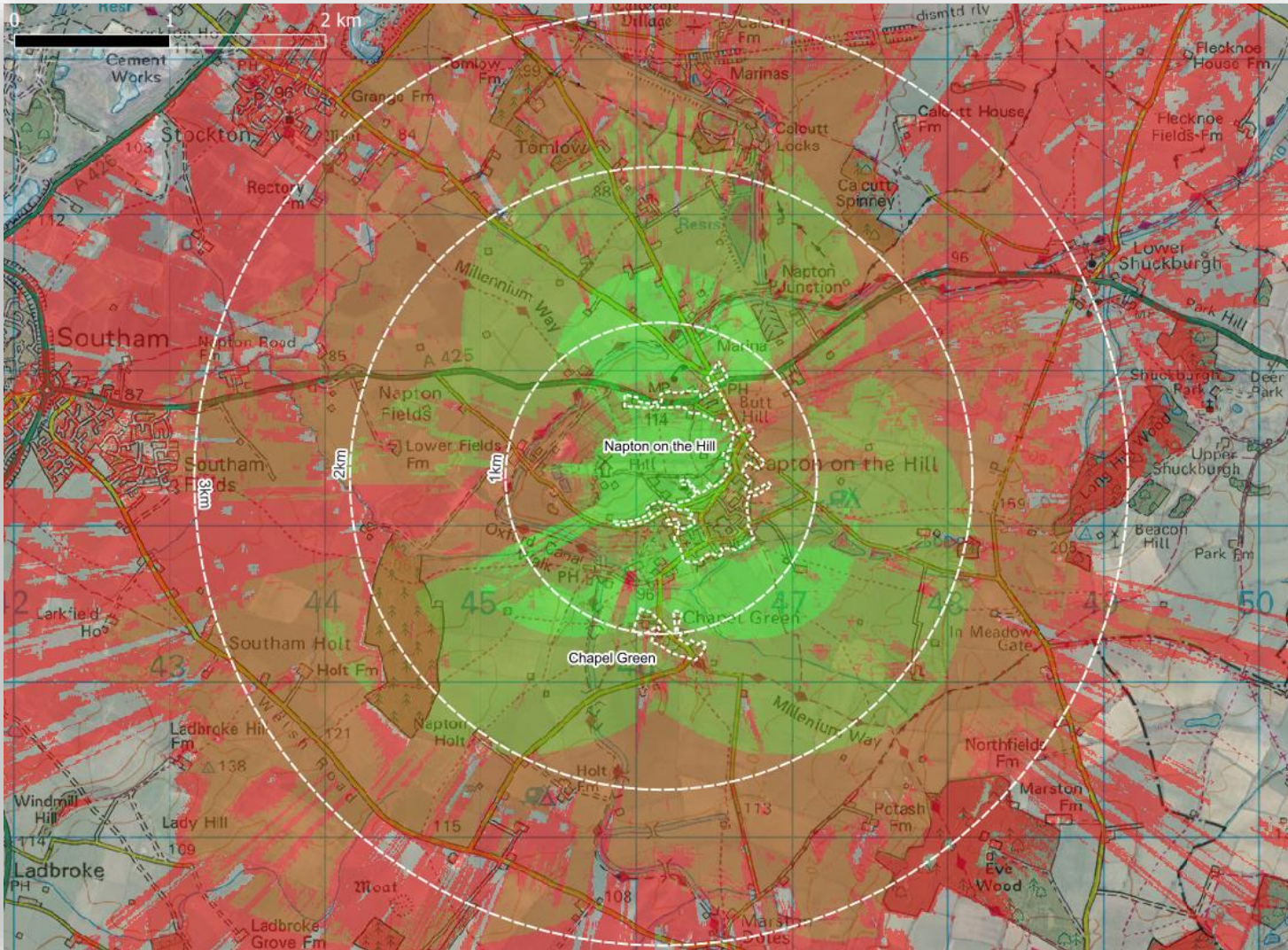
CV47-02 Napton on the Hill: Predicted Coverage (option 1)



A potential site in the west of the village would provide good coverage to Napton on the Hill, the A425 and Chapel Green.

Landowners have not yet been contacted. Locations are indicative only.

CV47-02 Napton on the Hill: Predicted Coverage (option 2)



A potential site to the west of the village would provide good coverage to Napton on the Hill, the A425 and Chapel Green.

Landowners have not yet been contacted. Locations are indicative only.

CV47-02 Napton on the Hill: Predicted Coverage (option 5)



A potential site east of the village would provide good coverage to Napton on the Hill and the A425.

Landowners have not yet been contacted. Locations are indicative only.

High-level process and next steps

1. Parish council discuss proposal internally (establish quality of mobile phone reception)
2. Visit potential sites to carry out a feasibility survey, following a positive response from a site provider
3. Agree Heads of Terms (HOTs) with the site provider/agent
4. Produce general arrangement drawings
5. Pre consultation starts and lease negotiations begin between solicitors
6. A planning application is submitted, following a positive pre consultation

Support from the Parish Council is essential to take the process forward.

Atlas welcome all feedback on the proposal.

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